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901 NORTH GLEBE ROAD, 11TH FLOOR			SAVAGE, MATTHEW O	
ARLINGTON,	VA 22203		ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1		Application No.	Applicant(s)			
:	055 4-4	10/830,148	GRACE ET AL.			
	Office Action Summary	Examiner	Art Unit			
<u> </u>		Matthew O. Savage	1797			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
2a)⊠ 3)⊡	Responsive to communication(s) filed on 23 Au This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro				
Dispositi	Disposition of Claims					
<ul> <li>4)  Claim(s) 1-15,21-37 and 55-69 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) 55-69 is/are allowed.</li> <li>6)  Claim(s) 1-15 and 21-37 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>						
Applicati	on Papers					
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the c Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Ex	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
a)[	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the prior  application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)						
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the seal clip having a straight shape recited in claim 4, and the elongated J shape and reverse L-shape recited in claim 24 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction

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of the following is required: the seal clip having an elongated J shape and reverse L shape recited in claim 24 lacks antecedent basis in the specification.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-15, 21-28 and 30-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 4,906,364 to Luthi in view of U.S. Patent 3,837,499 to Luthi.

With respect to claim 1, Luthi discloses a rotary drum filter including 10 a drum mounted for rotation (see FIG. 1), (b) a plurality of longitudinally extending division grids 24 mounted and spaced in parallel relationship about the outer circumferential surface of the drum, (c) a plurality of corrugated sheets 30 each sheet having alternating ridges and channels extending from a leading edge to a trailing edge (see FIG. 3), the leading and trailing edges of each sheet mounted on adjacent pairs of division grids to define filtrate compartments 28 around the circumference of the drum, (d) drainage slots 39 near the trailing edge of each channel for communication to said compartments, (e) a plurality of perforated filter plates 40, each filter plate attached to the top of a corresponding corrugated sheet, (f) a seal clip 50 disposed at a leading edge of each

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corrugated sheet (see FIG. 9), (g) a seal member 56 disposed close to the underside leading edge of each corrugated sheet and engaged between the seal clip and the corrugated sheet, and (h) shoulder portions (see FIG. 5) on both longitudinal faces of each division grid adapted to slidably and replaceably mount respective leading and trailing edges of circumferentially adjacent corrugated sheets. Luthi '364 fails to specify the seal clip as being disposed under the leading edge of each corrugated sheet. Luthi '499 discloses the concept of disposing a seal clip 72 under a leading edge of each corrugated sheet 56 and suggests that such an arrangement provides secure support for the leading edge of the corrugated sheet. It would have been obvious to have modified the filter of Luthi '364 so as to have included the seal clip design of Luthi '499 in order to provide additional support for the leading edge of the corrugated sheet.

With respect to claim 9, Luthi discloses a corrugated sheet 30 having alternating ridges and channels extending from a leading edge to a trailing edge, and having drainage slots 39 near the trailing edge of each channel (see FIG. 9, a perforated filter 40 plate attached to the top of the corrugated sheet, a seal clip 50 disposed at a leading edge of the corrugated sheet, and a seal member 56 disposed close to the underside leading edge of each corrugated sheet and engaged between the seal clip and the corrugated sheet. Luthi '499 discloses the concept of disposing a seal clip 72 under a leading edge of each corrugated sheet 56 and suggests that such an arrangement provides secure support for the leading edge of the corrugated sheet. It would have been obvious to have modified the filter of Luthi '364 so as to have included the seal clip

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design of Luthi '499 in order to provide additional support for the leading edge of the corrugated sheet.

As to claims 2 and 10, Luthi discloses the sealing member as comprising Teflon (see line 31 of col. 3).

Regarding claims 3 and 11, Luthi discloses the seal clip and corrugated sheet as being made from a material comprising a common material (e.g., metal, see the cross hatching of FIGS. 4 and 5).

Concerning claim 4, Luthi discloses the seal clip as being of an L-shape that securely anchors the seal member 56.

Regarding claims 5, 6, 12, 13, Luthi discloses the filter plate 40 as having a leading and trailing edges that are set back from the leading edge of the corrugated sheet (see FIG. 8).

As to claims 7, 8, 14, 15, Luthi discloses longitudinally extending perforated cap strips 70 that are removably fixed to the division grids so as to overlap the leading and trailing edges of the adjacent corrugated sheets (see FIG. 8).

With respect to claim 21, Luthi '364 discloses a rotary drum filter including 10 a drum mounted for rotation (see FIG. 1), (b) a plurality of longitudinally extending division grids 24 mounted and spaced in parallel relationship about the outer circumferential surface of the drum, (c) a plurality of corrugated sheets 30 each sheet having alternating ridges and channels extending from a leading edge to a trailing edge (see FIG. 3), the leading and trailing edges of each sheet mounted on adjacent pairs of division grids to define filtrate compartments 28 around the circumference of the drum.

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(d) drainage slots 39 near the trailing edge of each channel for communication to said compartments, (e) a plurality of perforated filter plates 40, each filter plate attached to the top of a corresponding corrugated sheet, (f) a seal clip 50 disposed in front of a leading edge of each corrugated sheet (see FIG. 9), (g) a seal member 56 disposed in front of the leading edge of each corrugated sheet and engaged between the seal clip and the corrugated sheet, and (h) shoulder portions (see FIG. 5) on both longitudinal faces of each division grid adapted to slidably and replaceably mount respective leading and trailing edges of circumferentially adjacent corrugated sheets. Luthi '364 fails to specify the seal clip as being disposed under the leading edge of each corrugated sheet. Luthi 499 discloses the concept of disposing a seal clip 72 under and in front of a leading edge of each corrugated sheet 56 and suggests that such an arrangement provides secure support for the leading edge of the corrugated sheet. It would have been obvious to have modified the filter of Luthi '364 so as to have included the seal clip design of Luthi '499 in order to provide additional support for the leading edge of the corrugated sheet.

With respect to claim 30, Luthi '364 discloses a filter deck assembly 10 (see FIG. 1) including (a) a corrugated sheet 34 having alternating ridges and channels extending from a leading edge to a trailing edge (see FIG. 4), and having drainage slots 39 near the trailing edge of each channel (see FIG. 9), a perforated filter plate 40 attached to the top of the corrugated sheet, and a seal clip 50 disposed in front of a leading edge of each corrugated sheet. Luthi '364 fails to specify the seal clip as being disposed under the leading edge of each corrugated sheet. Luthi '499 discloses the concept of

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disposing a seal clip 72 under and in front of a leading edge of each corrugated sheet 56 and suggests that such an arrangement provides secure support for the leading edge of the corrugated sheet. It would have been obvious to have modified the filter of Luthi '364 so as to have included the seal clip design of Luthi '499 in order to provide additional support for the leading edge of the corrugated sheet.

As to claims 22 and 31, Luthi '364 discloses the sealing member as comprising Teflon (see line 31 of col. 3).

Regarding claim 23 and 32, Luthi '364 discloses the seal clip and corrugated sheet as being made from a material comprising a common material (e.g., metal, see the cross hatching of FIGS. 4 and 5).

Concerning claim 24, Luthi '364 disclose the seal clip as being of an L-shape that securely anchors the seal member 56.

Regarding claims 25, 26, 33, and 34, Luthi '364 discloses the filter plate 40 as having a leading and trailing edges that are set back from the leading edge of the corrugated sheet (see FIG. 8).

As to claims 27, 28, 35, and 36, Luthi '364 discloses longitudinally extending perforated cap strips 70 that are removably fixed to the division grids so as to overlap the leading and trailing edges of the adjacent corrugated sheets (see FIG. 8).

Claims 55-69 are allowable over the art of record.

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Applicant's arguments filed 8-23-07 have been fully considered but they are not persuasive.

Applicant argues that they are not required to disclose every example of a claimed feature in the drawings and specification, however, the objections are maintained since each claimed feature must be shown in the drawing and have antecedent basis in the instant specification (see 37 CFR 1.83(a) and 37 CFR 1.75(d)(1)).

Applicant argues that there is no suggestion to combine the two Luthi references, however, it is held that such a combination would have been obvious in order to provide additional support at the underside of the corrugated members as explained in the above rejections. In addition, the combination would also have been obvious in order to provide a seal at the leading edge of the corrugated member in the case where the division members did not have shoulders formed therein.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew O. Savage whose telephone number is (571) 272-1146. The examiner can normally be reached on Monday-Friday, 7:00am-3:30pm.

Matthew O Savage Primary Examiner Art Unit 1724

mos